

Class – XII
DELETED SYLLABUS
(For the Session of 2020-21 Only)
HINDI
(THEORY)

सत्र 2020–21 हेतु पाठ्यक्रम से निम्नलिखित पाठ हटा दिए गए हैं :-

काव्य खण्ड (आरोह भाग– 2)	<ul style="list-style-type: none">● सूर्यकांत त्रिपाठी निराला – बादल राग● हरिवंशराय बच्चन – आत्म परिचय● आलोक धन्वा – पतंग● कुँवर नारायण – बात सीधी थी पर● उमाशंकर जोशी – (क) छोटा मेरा खेत (ख) बगुलों के पंख
गद्य खण्ड (आरोह भाग– 2)	<ul style="list-style-type: none">● विष्णु खरे – चार्ली चैप्लिन यानी हम सब● हजारी प्रसाद द्विवेदी – शिरीष के फूल
संस्कृत प्रबोधिनी (भाग– 2)	<ul style="list-style-type: none">● विद्यालस्य वार्षिकोत्सवः● लक्ष्यैकदृष्टि● श्रीकृष्णस्य दौत्यम्

Class – XII
DELETED SYLLABUS
(For the Session of 2020-21 Only)
ENGLISH
(THEORY)

Reading

- Note Making & Summarizing

Literature

FLAMINGO

Poets and Pancakes

1. A Roadside Stand

The Interview

Going Places

VISTAS

1. The Tiger King
2. Journey to the end of the Earth
3. Memories of Childhood

Writing

- Poster Making
- Business or Official letters for making enquiries, registering complaints, asking for and giving in orders and sending replies.
- Speech

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- Speech

Class – XII
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Sanskrit
(THEORY)

सत्र 2020–21 हेतु पाठ्यक्रम से निम्नलिखित अध्याय हटा दिए गए हैं :-

कक्षा–12

पाठ्यपुस्तक–भास्वती

अध्याय–(1) हल्दीघाटी

(2) मदालसा

(3) प्रतीक्षा

(4) विद्यास्थाननि

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HISTORY
(THEORY)

THEMES IN INDIAN HISTORY

S.No.	Topics	Theme (according to Book)	Deleted Portion
1	Through the Eyes of Travellers	Theme – 5 Book - Part II	Complete Chapter
2	Peasants, Zamindars and the State	Theme - 8 Book - Part II	Complete Chapter
3	Colonialism and the Countryside	Theme – 10 Book - Part III	A Revolt in the Countryside – The Bombay Deccan (Unit-3), The Deccan Riots Commission (Unit-4)
4	Colonial Cities	Theme – 12 Book - Part III	Complete Chapter
5	Understanding Partition	Theme – 14 Book - Part III	Complete Chapter
	No Change in Map Work		

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GEOGRAPHY
(THEORY)

A. Fundamentals of Human Geography

Unit 3: Human Activities

- Secondary activities-concept; manufacturing: types – household, small scale, large scale; agro based and mineral based industries; people engaged in secondary activities – some examples from selected countries.

Unit 4: Transport, Communication and Trade

- Land transport - roads, railways; trans-continental railways.
- Water transport- inland waterways; major ocean routes.
- Air transport- Intercontinental air routes.
- Oil and gas pipelines.
- Satellite communication and cyber space.
- International trade-Bases and changing patterns; ports as gateways of international trade, role of WTO in International trade.

Part B. India: People and Economy

Unit 9: Resources and Development

- Land resources- general land use; agricultural land use, Distribution of major crops (Wheat, Rice, Tea, Coffee, Cotton, Jute, Sugar cane and Rubber), agricultural development and problems.
- Industries - types, industrial location and clustering; distribution and changing pattern of selected industries-iron and steel, cotton textiles, sugar, petrochemicals, and knowledge based industries; impact of liberalization, privatisation and globalisation on industrial location;

Unit 10: Transport, Communication and International Trade

- Transport and communication-roads, railways, waterways and airways: oil and gas pipelines; national electric grids; communication networkings - radio, television, satellite and internet;
- International trade- changing pattern of India's foreign trade; sea ports and their hinterland and airports,

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ECONOMICS
(THEORY)

Part A : Introductory Microeconomics

Unit 1: Introduction

Concepts of production possibility frontier

Unit 3: Producer Behaviour and Supply

Producer's equilibrium-meaning and its conditions-under (a) total revenue-total cost approach and (b) marginal revenue-marginal cost approach.

Unit 4: Forms of Market and Price Determination

Non - Competitive Markets - monopoly, monopolistic competition, oligopoly - their meanings and features.

Part B : Introductory Macroeconomics

Unit 10: Balance of Payments

Balance of payments deficit-meaning.

Determination of exchange rate in a free market.

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HOME SCIENCE
(THEORY)

Unit I: Know Little Children (0-3 years)

Some specific characteristics: Emotional developments; recognition of people around; socialization, expression of emotions; cognitive development; learning through concrete operations and language development.

Special needs of disadvantaged and disabled children: socially disadvantaged, physically handicapped (affected/missing limb)

Unit II : Nutrition for Self and Family

Ways to ensure good health for the family: fats and oils, sugar, jaggery, honey, spices and condiments.

Unit III : Money Management and Consumer Education

Family Income: Supplementing family income-need & ways.

Savings and Investment: Basis for selection of method of investment risk, security, profit, tax saving.

Consumer Protection and Education: Consumer redressal forum.

Unit IV: My Apparel

Clothing and its relation to personality: Elements of line, colour, texture.

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POLITICAL SCIENCE
(THEORY)

Book I : Contemporary World Politics	
UNIT	TOPICS
7	Security in the Contemporary World (Completely Deleted)
8	Environment and Natural Resources (Completely Deleted)
Book II : Politics in India since Independence	
12	Planned Development These topics are deleted from this unit: Planning Commission and Five-year Plans
13	India's External Relations (Completely Deleted)
16	Regional Aspirations (Completely Deleted)
17	Rise of New Social Movements (Completely Deleted)

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PSYCHOLOGY
(THEORY)

Psychology, Self and Society

Unit V : Therapeutic Approaches

Types of therapies: Psychodynamic

Unit VI : Attitude and Social Cognition

Social cognition; Schemas and stereotypes; Impression formation.

Unit VII : Social Influence and Group Processes

Nature of Conformity, Obedience, and Compliance: Cooperation and Competition; Social identity; Inter-Group Conflict; Conflict Resolution Strategies.

Unit VIII: Environmental and Social Concerns

This unit focuses on the application of psychological understanding to some important social issues. Human- environment relationship; Environmental effects on human behaviour. Noise, pollution, crowding, natural disasters, social issue: Aggression and Violence; Social Inequality and Poverty; Media and human values; Promoting pro-environmental behaviour, Human rights and citizenship; Peace.

Unit IX: Professional Skills for a Psychologist

This unit deals with some effective psychological and interpersonal skills for facilitating personal-social development.

Psychological skills: Observation, Interviewing, Testing, Counseling and Communication.

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SOCIOLOGY
(THEORY)

A : INDIAN SOCIETY

Unit 4: Market As A Social Institution

- Market as a Social Institution

B : CHANGE AND DEVELOPMENT IN INDIA

Unit 10 : The Story Of Democracy

- The Constitution as an instrument of Social Change
- Parties, Pressure Groups and Democratic Politics
- Panchayati Raj and the Challenges of Social Transformation

Unit 13: Globalisation And Social Change

Unit 14: Mass Media And Communication Process

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MATHEMATICS
(THEORY)

UNIT I. RELATIONS AND FUNCTIONS

1. **Relations and Functions :**
Composite functions, inverse of a function.
2. **Inverse Trigonometric Functions:**
Graphs of inverse trigonometric functions. Elementary properties of inverse trigonometric functions.

UNIT-II: ALGEBRA

1. **Matrices:**
Existence of non-zero matrices whose product is the zero matrix. Concept of elementary row and column operations. Proof of the uniqueness of inverse, if it exists.
2. **Determinants:**
Properties of determinants, Consistency, inconsistency and number of solutions of system of linear equations by examples

UNIT-III: CALCULUS

1. **Continuity and Differentiability:**
Rolle's and Lagrange's Mean Value Theorems (without proof) and their geometric interpretations.
2. **Applications of Derivatives:**
Rate of change, approximation
3. **Integrals:**
Definite integrals as a limit of a sum
4. **Applications of the Integrals:**
Area between the two above said curves
5. **Differential Equations:**
Formation of differential equation whose general solution is given.

UNIT-IV: VECTORS AND THREE-DIMENSIONAL GEOMETRY

1. **Three - dimensional Geometry:**
Angle between (i) two lines, (ii) two planes. (iii) a line and a plane.

UNIT-V: LINEAR PROGRAMMING

1. **Linear Programming:** Mathematical formulation of L.P. problems,

UNIT-VI: PROBABILITY

- 1. Probability:**
Mean and variance of haphazard variable. Binomial distribution.

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PHYSICS
(THEORY)

Unit I : Electrostatics

Uniformly charged thin spherical shell (field inside and outside)

Unit II : Current Electricity

Carbon resistors, colour, code for carbon resistors; series and parallel combinations of resistors.

Unit III : Magnetic Effects of Current and Magnetism

Cyclotron, Magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis. Torque on a magnetic dipole (bar magnet) in a uniform magnetic field; Para-, Dia- and ferro – magnetic substances with examples. Electromagnets and factors affecting their strengths. Permanent magnets.

Unit IV : Electromagnetic Induction And Alternating Currents

Power in AC circuits, Wattless Current.

Unit V : Electromagnetic waves

Displacement Current.

Unit VI : Optics

Reflection of light, spherical mirrors, mirror formula.

Scattering of light – blue colour of the sky and reddish appearance of the sun at sunrise and sunset.

Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.

Polarisation, plane polarised light; Brewster's law, uses of plane polarised light and Polaroids.

Unit VII : Dual Nature of Matter and Radiation

Davisson-Germer experiment.

Unit VIII : Atoms and Nuclei

Radioactivity alpha, beta and gamma particles/rays and their properties; radioactive decay law.

Unit IX : Electronic Devices

Zener diode; Zener diode as a voltage regulator.

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CHEMISTRY
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Unit I: Solid State

Electrical and magnetic properties.

Unit II: Solutions

Abnormal molecular mass.

Unit III: Electrochemistry

Laws of electrolysis (elementary idea), dry cell – electrolytic cells and Galvanic cells; lead accumulator, fuel cells; corrosion.

Unit IV: Chemical Kinetics

Concept of collision theory (elementary idea, no mathematical treatment)

Unit V: Surface Chemistry

Catalysis : homogenous and heterogeneous, activity and selectivity: enzyme catalysis; emulsion – types of emulsions.

Unit VI: General Principles and Processes of Isolation of Elements

Principles and methods of extraction - concentration, oxidation, reduction electrolytic method and refining; occurrence and principles of extraction of aluminium, copper, zinc and iron.

Unit VII: p-Block Elements

Group 15 elements: Oxides of nitrogen (structure only); Phosphorous-allotropic forms; compounds of phosphorous: preparation and properties of phosphine, halides (PCl_3 , PCl_5) and oxoacids (elementary idea only)

Group 16 elements: sulphuric acid: industrial process of manufacture, properties and uses, oxoacids of sulphur (structures only).

Unit VIII: d and f Block Elements

Preparation and properties of $\text{K}_2\text{Cr}_2\text{O}_7$ and KMnO_4 .

Lanthanoids - Chemical reactivity

Actinoids - Electronic configuration, oxidation states.

Unit IX: Coordination Compounds

Importance of coordination compounds (in qualitative analysis, extraction of metals and biological systems).

Unit X: Haloalkanes and Haloarenes.

Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.

Unit XI: Alcohols, Phenols and Ethers

Alcohols: Uses of methanol and ethanol.

Unit XIII: Organic compounds containing Nitrogen

Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.

Unit XIV: Biomolecules

Carbohydrates - Oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); importance.

Proteins - Enzymes.

Vitamins - Classification and functions.

Unit XV: Polymers

Classification - natural and synthetic, methods of polymerization (addition and condensation), copolymerization. Some important polymers: natural and synthetic like polythene, nylon, polyesters, bakelite, rubber.

Unit XVI: Chemistry in Everyday life:

1. **Chemicals in medicines** - analgesics, tranquilizers, antiseptics, disinfectants, antimicrobials, antifertility drugs, antibiotics, antacids, antihistamines.
2. **Chemicals in food** - preservatives, artificial sweetening agents.
3. **Cleansing agents** - soaps and detergents, cleansing action.

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BIOLOGY
(THEORY)

UNIT-I

I REPRODUCTION

Reproduction in organisms : Asexual and sexual reproduction.

UNIT-II

II GENETICS AND EVOLUTION

Evolution: Origin of life, theories and evidences, adaptive radiation, mechanism of Evolution, origin and evolution of man.

UNIT-III

III BIOLOGY AND HUMAN WELFARE

Plant breeding, tissue culture, single cell protein, food production, animal husbandry.

UNIT-V

IV ECOLOGY & ENVIRONME

Ecosystems : components, types, energy flow, nutrient cycling and ecosystem services.

Environmental issues.

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BUSINESS STUDIES
(THEORY)

Part A: Principles and Functions of Management

Unit 3: Business Environment

- Economic Environment in India; Impact of Government policy changes on business and industry, with special reference to adoption of the policies of liberalization, privatization and globalisation

Unit 4: Planning

- Types of Plans - Objectives, Strategy, Policy, Procedure, Method, Rule, Budget, Programme.

Unit 5: Organising

- Formal and informal organization.

Unit 6: Staffing

- Staffing as a part of Human Resource Management

Unit 7: Directing

- Elements of Directing
 - Communication - Barriers to effective communication.

Unit 8: Controlling

- Relationship between planning and controlling

Part B : Business Finance and Marketing

Unit 11: Marketing Management

- Marketing mix - elements
 - Physical distribution: Elements; Channels of distribution : types, function, choice of channels

Unit 12: Consumer Protection

- Importance of consumer protection
- Ways and means of consumer protection - Consumer awareness
- Role of consumer organizations and NGOs.

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AGRICULTURE FOR F₂
(THEORY)

केवल कृषि वर्ग भाग – 2

(विषय कोड – 139)

षष्ठम प्रश्न-पत्र

शस्य विज्ञान (सिंचाई, जल निकास एवं शाक तथा फल संवर्धन)

सिंचाई तथा जल निकास— सिंचाई जल के अपव्यय की रोकथाम, सिंचाई जल के गुण और उनके प्रभाव ।

सिंचाई की प्रणालियां एवं विधियां— भराव, सिंचाई, उठाव सिंचाई एवं पट्टी सिंचाई (वार्डर विधि)

सिंचाई जल की माप— मीटर माप की प्रणाली ।

जल निकास की आवश्यकता— मिट्टी में अति नमी से हानियां, (क्षारीय एवं प्रक्षेत्र फार्म)

दैवी आपदायें— अतिवृष्टि, अनावृष्टि, उपलवृष्टि

शाक तथा फल संवर्धन—

(क) गांठ गोभी ।

(ग) करेला, खरबूजा, तुरई ।

(घ) शकरकन्द ।

(ज) भिण्डी ।

(झ) बेर, नींबू, आड़ू ।

केवल कृषि वर्ग भाग – 2

(विषय कोड – 140)

(कृषि-अर्थशास्त्र)

सप्तम् प्रश्न-पत्र

- (क) प्रारम्भिक अर्थशास्त्र— अन्य विज्ञानों से सम्बन्ध
- (1) उत्पादन के उपादान, प्रतिफल नियम, प्रदेश के प्रमुख उत्पादन आंकड़े—
श्रम— श्रम का संयोजन, श्रम की दक्षता, गतिशीलता।
संगठन— प्रबन्ध और उत्तम कृषि उत्पादन के उपादानों का संयोजन।
- (2) विनिमय— मूल्य का सिद्धान्त, द्रव्य, अन्तर्राष्ट्रीय व्यापार के सिद्धान्त।
- (3) वितरण— मजदूरी, ब्याज और लाभ।
- (4) उपभोग— आवश्यकतायें,, मूल्य सापेक्षता और जीवन स्तर।
- (ख) एक धंधी बनाम बहुधंधी सहकारी समितियां, भूमि विकास बैंक।
- (ग) विभिन्न सामुदायिक संस्थाओं के कार्य, ग्राम शिक्षा।
- (घ) प्रदेश में कृषि उत्पादन के प्रमुख आंकड़े।
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केवल कृषि वर्ग भाग — 2

(विषय कोड — 141)

(कृषि-जन्तु विज्ञान)

अष्टम् प्रश्न-पत्र

- 1— (अ) जीव द्रव्य का रासायनिक संगठन, भौतिक गुण एवं जैविक गुण।

- (ब) पैरामीशियम
- 2— निम्नलिखित के बाह्य आकार, स्वभाव तथा जीवन-वृत्त का अध्ययन—
- (क) गोलाकृमि, तिलचट्टा, दीमक।
- 3— निम्नलिखित की आन्तरिक संरचना—
- तिलचट्टा।
- 4— (क) फुफुस, वृक्क।
- (ख) श्वसन।
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केवल कृषि वर्ग भाग – 2
(विषय कोड – 142)
(पशुपालन एवं पशु चिकित्सा विज्ञान)
नवम् प्रश्न-पत्र

बैल और सांड़ी के लक्षण और उनका गुणांकन-पत्र विधि से चयन।

मुर्गियों की देख-रेख और प्रबन्ध सम्बन्धी सामान्य सिद्धान्त।

विभिन्न प्रकार के चारों और दानों को वर्ष भर सस्ती उपलब्धि पर सामान्य विचार।

दूध से बनने वाले पदार्थों जैसे आइसक्रीम की सामान्य जानकारी। आपरेशन पलड की संक्षिप्त जानकारी।

पशु चिकित्सा व्यवहार में प्रमुख साधारण औषधियों और उनकी प्रयोग विधि।

केवल कृषि वर्ग भाग – 2
(विषय कोड – 143)
(कृषि रसायन)
दशम् प्रश्न-पत्र

भौतिक रसायन—

- (5) परमाणु की रचना एवं रेडियों एकटीविटी।
- (6) एवोग्रेडो की परिकल्पना और उसके उपयोग।
- (8) आक्सीकरण एवं अपचयन।

अकार्बनिक रसायन

[1] तत्वों का आवर्ती वर्गीकरण—

अध्ययन— गंधक, सल्फर डाई आक्साइड, सल्फयूरिक अम्ल, क्लोरीन, हाइड्रोक्लोरिक अम्ल।

कार्बनिक रसायन—

एसिटेलडीहाइड, एसीटोन।

अमीन तथा अमाइड—मेथिल तथा एथिल अमीन, यूरिया।

व्यूटिरिक, लैक्टिक तथा इंधु शंकरा स्टार्च।

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Urdu (Sub. Code 106)
(THEORY)

Section – A

Writing Skills : Advertisements

- 1- Letter writing : Personal and Business.
- 2- Sentence making with the help of idiomatic phrases.

Section – B

Book I : Jangal Ki Ek Raat By Rehan Ahmad Abbasi.

- (i) Zebra.
- (ii) Haryal.
- (iii) Jungli Murgh.
- (iv) Hud-Hud.
- (v) Reechh.

Book II : Heroine Ki Talash By Prof. M. Mujeeb.
Features of Mohammad Mujeeb's Drama.

Class – XII
DELETED SYLLABUS
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Agriculture Hindi
(THEORY)

सत्र 2020–21 हेतु पाठ्यक्रम से निम्नलिखित पाठ हटा दिए गए हैं :-

<p>काव्य खण्ड (आरोह भाग– 1)</p>	<ul style="list-style-type: none"> ● त्रिलोचन – चंपा काले काले अच्छर नहीं चीन्हती ● अक्क महादेवी – (क) हे भूख! मत मचल, (ख) हे मेरे जूही के फूल जैसे ईश्वर ● अवतार सिंह पाश–सबसे खतरनाक
<p>काव्य खण्ड (आरोह भाग– 2)</p>	<ul style="list-style-type: none"> ● सूर्यकांत त्रिपाठी निराला – बादल राग ● हरिवंशराय बच्चन – आत्म परिचय ● आलोक धन्वा – पतंग ● कुँवर नारायण – बात सीधी थी पर ● उमाशंकर जोशी – (क) छोटा मेरा खेत (ख) बगुलों के पंख
<p>गद्य खण्ड (आरोह भाग– 1)</p>	<ul style="list-style-type: none"> ● सत्यजित राय – अपू के साथ ढाई साल ● सैयद हैदर रजा – आत्मा का ताप ● राम नरेश त्रिपाठी – पथिक ● बालमुकुंद गुप्त – विदाई संभाषण ● मन्नू भंडारी – रजनी
<p>गद्य खण्ड (आरोह भाग– 2)</p>	<ul style="list-style-type: none"> ● विष्णु खरे – चार्ली चैप्लिन यानी हम सब ● हजारी प्रसाद द्विवेदी – शिरीष के फूल
<p>संस्कृत प्रबोधिनी (भाग– 1)</p>	<ul style="list-style-type: none"> ● प्रश्नोत्तर–विनोदः ● प्राणेभ्यः संस्कृतिः श्रेष्ठा ● वणिगवैद्ययोः वार्तालापः

संस्कृत प्रबोधिनी (भाग- 2)

- विद्यालस्य वार्षिकोत्सवः
- लक्ष्यैकदृष्टि
- श्रीकृष्णस्य दौत्यम्

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Punjabi
(THEORY)

पुस्तक का नाम – कथा कहानी

1. इत भखासे
2. तिड़किया होया शीशा
3. कार खिडोणा
4. दुध दीआं नहिरां

पुस्तक का नाम – काव्य कीरती

1. प्रीतम सिंह सफ़ीर की सभी कविताएँ।
2. बाबा बलवंत की सभी कविताएँ।
3. शिव कुमार बटावली की सभी कविताएँ।
4. म0स0 मीशा सफ़ीर की सभी कविताएँ।

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Accountancy
(THEORY)

Part A:

Accounting for Not-For-Profit Organisations, Partnership Firms and Companies.

Unit 1: Accounting for Not-for-profit Organisations

- Meaning and features of fundbased accounting.
- Balance Sheet from
- Receipt and Payment Account with additional information.

Unit 2: Accounting for Partnership firms

- Including past adjustments.

Unit 3: Reconstitution of Partnership

- Goodwill: Capitalisation methods.
- *Admission of a Partner:* Adjustment of Capitals.
- *Death of a Partner:* Adjustment of Capitals.

Unit 4: Accounting for Share Capital and Debenture

- Accounting for share capital: Preference; calls in advance. Meaning of Private placement of shares and employee stock option plan.
- Presentation of Share Capital in company's Balance Sheet.
- Issue of debentures as collateral security
- Redemption of debentures; sources : out of profits - debenture redemption reserve; out of capital-methods : lump sum payment, draw by lots, purchase in the open market and conversion (excluding cum-interest and ex-interest).

Part B: Financial Statement Analysis

Unit 5: Analysis of Financial Statements

- Tools for Financial Statement Analysis: Comparative Statements, Common Size Statements,
Solvency Ratios: Total Assets to Debt
Activity Ratios: Working Capital Turnover, Fixed Assets Turnover,
Profitability Ratio: Earning Per Share, Dividend per Share, Price Earning Ratio

OR

Part C: Computerised Accounting

Unit 5: Overview of Computerized Accounting System

- Structure of a Computerised Accounting System

Unit 6: Accounting using Database Management System (DBMS)

- employees' profile, petty cash register.

Unit 7: Accounting Applications of Electronic Spreadsheet

- Preparing depreciation schedule, loan repayment schedule, payroll accounting and other such applications.

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Bengali
(THEORY)

Section A: Grammar

- 1. Phonology(Definition with two examples)**
 - (i) Samibhaban
 - (ii) Swarabhakti
- 2. Rhetoric (Definition with five Identification)**
 - (i) Shamashakti

Section D: Literature

Lessons to be studied:

- 1. PROSE**
 1. Biral
- 2. Uccha Madhyamic Path Sanchayan(Poetry & Drama) Edition 2005**

Poems to be studied:

- (i) Attya Bilap

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Geology
(THEORY)

UNIT - III - जीवाश्म विज्ञान

- 2- गैस्ट्रोपोडा : परिचय, उदाहरण तथा उनका सचित्र वर्णन।
3- लैमीलीब्रेकिया: परिचय, उदाहरण तथा उनका सचित्र वर्णन।

UNIT - IV - स्तरीय विज्ञान

- 2- गोण्डवाना शैल समूह - परिचय, वर्गीकरण, आयु तथा उनमें पाए जाने वाले मुख्य खनिज तथा शैल

UNIT - V - आर्थिक भूगर्भ विज्ञान

- 3- अयस्क :
- | | | | | | | |
|-----------------|---|---|---|---|---|---|
| अ- बाक्साइट | - | भौतिक गुण, रसायनिक गुण उनके वितरण तथा उपयोग | | | | |
| ब- चालकोपाइराइट | - | " | " | " | " | " |
| स- जिप्सम | - | " | " | " | " | " |
| य- हेमेटाइट | - | " | " | " | " | " |
| र- मैग्नेटाइट | - | " | " | " | " | " |

UNIT - VI

1. उत्तराखण्ड की प्रमुख भू आपदाओं का संक्षिप्त परिचय।
2. भू-स्खलन - उनके प्रमुख प्रकार तथा उत्तराखण्ड में भू-स्खलनों की स्थिति।
3. उत्तराखण्ड में भूकम्पों का संक्षिप्त इतिहास तथा भूकम्प की दृष्टि से प्रदेश के प्रमुख संवेदनशील क्षेत्र।
4. अतिवृष्टि तथा अचानक बाढ़ उत्तराखण्ड के परिपेक्ष में।

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Computer Science
(THEORY)

UNIT 1 : PROGRAMMING IN C++

Declaration and Initialization of Pointers; Dynamic memory allocation/deallocation operators: **new,delete**; Pointers and Arrays: Array of Pointers, Pointer to an array (1 dimensional array), Function returning a pointer, Reference variables and use of alias; Function call by reference. Pointer to structures: Deference operator: *, ->; self referencial structures;

UNIT 2: DATA STRUCTURES

Queue: (Circular Array and Linked Implementation):

Operations on Queue (Insert and Delete) and its Implementation in C++.

UNIT 3: DATABASES AND SQL

Database Concepts:

Relational algebra: Selection, Projection, Union and Cartesian product;

UNIT 4: BOOLEAN ALGEBRA

Obtaining Sum of Product (SOP) and Product of Sum (POS) form from the Truth Table, Reducing Boolean Expression (SOP and POS) to its minimal form.

UNIT 5: COMMUNICATION AND OPEN SOURCE CONCEPTS

Web Servers;

Hyper Text Markup Lanuage (HTML), extensible Markup Language (XML); Hyper Text Transfer Protocol (HTTP); Domain Names; URL; Protocol Address; Website, Web browser, Web Servers; Web Hosting, Web Scripting – Client side (VB script, Java Script, PHP) and Server side (ASP, JSP, PHP)

Open Source Terminologies:

Open Source Software, Freeware, Shareware, Proprietary software, FLOSS, GNU, FSF, OSI;

Class – XII
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Education
(THEORY)

खण्ड 'अ' (शिक्षा के सिद्धान्त)

इकाई— 1 शैक्षिक विचारधारा का विकास

- (अ) आधुनिक भारतीय शिक्षा—ब्रिटिश कालीन शिक्षा स्वातंत्रयोत्तर भारतीय शिक्षा
- (ब) पुनरीक्षित 1992

इकाई— 4 शिक्षा की समस्याएँ

- (अ) शैक्षिक प्रसार – समस्याएँ व समाधान (दूरस्थ शिक्षा)
- (स) सामाजिक शिक्षा

खण्ड 'ब'

इकाई— 5 प्रेरणा एवं मूल प्रवृत्तियाँ

- (ब) मूल प्रवृत्तियाँ – अर्थ, शैक्षिक महत्व, मूल प्रवृत्तियों का शोधन

इकाई— 6 मानसिक स्वास्थ्य एवं मानसिक स्वास्थ्य विज्ञान

- (ब) मानसिक अस्वस्थता – अर्थ, कारण, हानिकारक प्रभाव तथा निवारण

इकाई— 7 परीक्षण एवं निरीक्षण

- (ब) उपलब्धि परीक्षण

इकाई— 8 निर्देशन

- (ब) अपराधी एवं मंदबुद्धि बालकों के व्यवहार की समस्याएँ और उचित मार्गदर्शन

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Military Science
(THEORY)

UNIT 4 प्रतिरक्षा की द्वितीय पंक्ति

16– प्रादेशिक सेना (Territorial Army)

17– सहायक सेनांग (प्रशासनिक) इंजीनियरिंग सिग्नल कोर, मेडिकल कोर

UNIT 5 वायुसेना

22– वायुसेना के प्रशिक्षण संस्थान

UNIT 10 भारत का प्रथम स्वतंत्रता संग्राम (1857 ई०)

31– असफलता के कारण व शिक्षाएं